SEQUENCE LISTING

<110> Zauderer, Maurice
Evans, Elizabeth E.
Borrello, Melinda A.

<120> A Gene Differentially Expressed in Breast and Bladder Cancer, and Encoded Polypeptides

<130> 1821.0040001

<140> 09/824,787
<141> 2001-04-04

<150> 60/194,463
<151> 2000-04-04

<160> 147

<170> PatentIn Ver. 2.1

<210> 1
<211> 354
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (7)..(354)

<400> 1

```
gccgcg atg agc ggg gag ccg ggg cag acg tcc gta gcg ccc cct ccc    48
       Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro
         1               5                  10

gag gag gtc gag ccg ggc agt ggg gtc cgc atc gtg gtg gag tac tgt   96
Glu Glu Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys
 15                  20                  25                  30

gaa ccc tgc ggc ttc gag gcg acc tac ctg gag ctg gcc agt gct gtg   144
Glu Pro Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val
                 35                  40                  45

aag gag cag tat ccg ggc atc gag atc gag tcg cgc ctc ggg ggc aca   192
Lys Glu Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr
             50                  55                  60

ggt gcc ttt gag ata gag ata aat gga cag ctg gtg ttc tcc aag ctg   240
Gly Ala Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu
         65                  70                  75

gag aat ggg ggc ttt ccc tat gag aaa gat ctc att gag gcc atc cga   288
Glu Asn Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg
     80                  85                  90

aga gcc agt aat gga gaa acc cta gaa aag atc acc aac agc cgt cct   336
Arg Ala Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro
 95                  100                 105                 110

ccc tgc gtc atc ctg tga                                          354
Pro Cys Val Ile Leu
```

115

<210> 2
<211> 115
<212> PRT
<213> Homo sapiens

<400> 2

```
Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro Glu Glu
  1               5                  10                  15
Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys Glu Pro
            20                  25                  30
Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val Lys Glu
        35                  40                  45
Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala
    50                  55                  60
Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
65                  70                  75                  80
Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
                85                  90                  95
Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys
            100                 105                 110
Val Ile Leu
        115
```

<210> 3
<211> 518
<212> DNA
<213> Homo sapiens

<400> 3

```
gggccgcgat gagcgtagcc ggggcagacg tccgtagcgc cccctcccga ggaggtcgag 60
ccgggcagtg gggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc 120
tacctggagc tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc 180
ctcgggggca caggtgcttt gagatagaga taaatggaca gctggtgttc tccaagctgg 240
agaatggggg ctttccctat gagaaagatc tcattgaggc catccgaaga gccagtaatg 300
gagaaaccct agaaaagatc accaacagcc gtcctccctg cgtcatcctg tgactgcaca 360
ggactctggg ttcctgctct gttctggggt ccaaaccttg gtctcccttt ggtcctgctg 420
ggagctcccc tgcctctttc acctacttag ctccttagca aagagacact ggcctccact 480
ttgccctttg ggtacaaaga aggaatagaa gattccgt                          518
```

<210> 4
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)..(15)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (28)..(28)

<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (31)..(31)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (491)..(491)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (535)..(535)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (557)..(557)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (565)..(565)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (574)..(574)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (588)..(588)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (595)..(595)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (606)...(606)
<223> n is any nucleotide of a, t, g or c

<400> 4
ggggcccgag cggnngccag cgantgangg nangccggga cagacgtccg tagcgccccc 60
tcccgaggag gtcgagccgg gcagtggggt ccgcatcgtg gtggagtact gtgaaccctg 120
cggcttcgag gctacctacc tggagctggc cagtgctgtg aaggagcagt atccgggcat 180
cgagatcgag tcgcgcctcg ggggcacagg tgctttgaga tagagataaa tggacagctg 240
gtgttctcca agctggagaa tgggggcttt ccctatgaga aagatctcat tgaggccatc 300
cgaagagcca gtaatggaga aaccctagaa aagatcacca acaagcccgt cctcccttgc 360
gtcatcctgt gacttgcaca ggactctggg gttcctgctc tgttctgggg gtccaaacct 420
tggtctccct ttggtcctgc tgggaagctc cccctgcctc tttcccctaa ttagctctta 480
agcaaagaga ncctggcctc caatttgccc tttgggtaca aagaaggaat agaanatccg 540

tggccttggg gaagganaaa aaatntccat aaantttca ggcaactnaa acccnttcca 600
ggtaantccc agaaaaccaa t 621

<210> 5
<211> 683
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (608)..(608)
<223> n is any nucleotide of a, t, g or c

<400> 5
gagccggggc agacgtccgt agcgcccccc cccgaggagg tcgagccggg cagtggggtc 60
cgcatcgtgg tggagtactg tgaaccctgc ggcttcgagg cgacctacct ggagctggcc 120
agtgctgtga aggagcagta tccgggcatc gagatcgagt cgcgcctcgg gggcacaggt 180
gcctttgaga tagagataaa tggacagctg gtgttctcca agctggagaa tgggggcttt 240
ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatggaga aaccctagaa 300
aagatcacca acagccgtcc tccctgcgtc atcctgtgac tgcacaggac tctgggttcc 360
tgctctgttc tggggtccaa accttggtct ccctttggtc ctgctgggag ctccccctgc 420
ctctgtcccc tacttagctc cttagcaaag agaccctggc ctccactttg ccctttgggt 480
acaaagaagg aatagaagat tccgtggcct tgggggcagg agagagacac tctccatgaa 540
cacttctcca gccacctcat acccccttcc cagggtaagt gcccacgaaa gcccagtcca 600
ctcttcgnct cggtaatacc tgtctgatgc cacagatttt atttattctc ccctaaccca 660
gggcaatgtc agctattgcc agt 683

C1

<210> 6
<211> 490
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (23)..(24)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (65)..(67)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (432)..(432)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (454)..(454)

<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (461)..(461)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (490)..(490)
<223> n is any nucleotide of a, t, g or c

<400> 6
gattcggcac gngggcnagg gannggggca gacgtccgta gcgccccctc ccgaggaggt 60
cgagnnnggc agtggggtcc gcatcgtggt ggagtactgt gaaccctgcg gcttcgaggc 120
gacctacctg gagctggcca gtgctgtgaa ggagcagtat ccgggcatcg agatcgagtc 180
gcgcctcggg ggcacaggtg ctttgagata gagataaatg gacagctggt gttctccaag 240
ctggagaatg ggggctttcc ctatgagaaa gatctcattg aggccatccg aagaagccag 300
taatggagaa accctagaaa agatcaccaa caagcccgtc ctccctgcgt catcctgtga 360
ctgcacagga ctctgggttc ctgctctgtt ctggggtcca aaccttggtc tccctttggt 420
cctgctggga gntccccctg cctctttccc ctanttagct ncttagcaaa gagaccctgg 480
cctccacttn 490

<210> 7
<211> 557
<212> DNA
<213> Homo sapiens

C1

<220>
<221> misc_feature
<222> (28)..(28)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (504)..(504)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (527)..(527)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (545)..(545)
<223> n is any nucleotide of a, t, g or c

<400> 7
cgtccgtagc gccccctccc gaggaggnct gagccgggca gtggggtccg catcgtggtg 60
gagtactgtg aaccctgcgg cttcgaggcg acctacctgg agctggccag tgctgtgaag 120
gagcagtatc cgggcatcga gatcgagtcg cgcctcgggg gcacaggtgc tttgagatag 180
agataaatgg acagctggtg ttctccaagc tggagaatgg gggctttccc tatgagaaag 240
atctcattga ggccatccga agagccagta atggaagaaa ccctagaaaa gatcaccaac 300
agccgtcctc ccttgcgtca tcctgtgact tgcacaggac tctgggttcc tgctctgttc 360
ttggggtcca aacctttggt ctccctttgg tcctgctggg aagctccccc tgcctctttt 420
cccctactta agctccttta gcaaagaaga acctgggcct tccacttttg ccctttgggg 480
gtacaaaaga aggaattaga aganttccgt gggcctttgg gggcaangaa gaagagaaac 540
tcttnccatt gaacaat 557

<210> 8
<211> 508
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (12)..(13)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (19)..(20)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (23)..(23)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (31)..(31)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (44)..(44)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (442)..(442)
<223> n is any nucleotide of a, t, g or c

<400> 8
ggcccgagcg gnngccagnn gantgangag nangccgggg cagncgtccg tagcgccccc 60
tcccgaggag gtcgagccgg gcagtggggt ccgcatcgtg gtggagtact gtgaaccctg 120
cggcttcgag gcgacctacc tggagctggc cagtgctgtg aaggagcagt atccgggcat 180
cgagatcgag tcgcgcctcg ggggcacagg tgcctttgag atagagataa atggacagct 240
ggtgttctcc aagctggaga atgggggctt tccctatgag aaagatctca ttgaggccat 300
ccgaagagcc agtaatggag aaaccctaga aaagatcacc aacagccgtc ctccctgcgt 360
catcctgtga ctgcacagga ctctgggttc ctgctctgtt ctggggtcca aaccttggtc 420
tccctttggt cctgctggga gntccccctg gctcttttcc cctacttaag ctccttaagc 480
aaagaagacc ctggcctcca attttgtt 508

<210> 9
<211> 418
<212> DNA
<213> Homo sapiens

<400> 9
cgtccgtagc gccccctccc gaggaggtcg agccgggcag tggggtccgc atcgtggtgg 60
agtactgtga accctgcggc ttcgaggcga cctacctgga gctggccagt gctgtgaagg 120
agcagtatcc gggcatcgag atcgagtcgc gcctcggggg cacaggtgcc tttgagatag 180
agataaatgg acagctggtg ttctccaagc tggagaatgg gggctttccc tatgagaaag 240
atctcattga ggccatccga agagccagta atggagaaac cctagaaaag atcaccaaca 300
gccgtcctcc ctgcgtcatc ctgtgactgc acaggactct gggttcctgc tctgttctgg 360
ggtccaacct tggtctccct ttggtcctgc tgggagctcc cctgcctctt tccctact 418

<210> 10
<211> 411
<212> DNA
<213> Homo sapiens

<400> 10
cgcatcgtgg tggagtactg tgaaccctgc ggcttcgagg cgacctacct ggagctggcc 60
agtgctgtga aggagcagta tccgggcatc gagatcgagt cgcgcctcgg gggcacaggt 120
gctttgagat agagataaat ggacagctgg tgttctccaa gctggagaat gggggctttc 180
cctatgagaa agatctcatt gaggccatcc gaagagccag taatggagaa accctagaaa 240
agatcaccaa cagccgtcct ccctgcgtca tcctgtgact gcacaggact ctgggttcct 300
gctctgttct ggggtccaaa ccttggtctc cctttggtcc tgctggggag ctccccctgc 360
ctctttcccc tacttagctc cttagcaaag agacctgggc ctccattttg c 411

<210> 11
<211> 397
<212> DNA
<213> Homo sapiens

C1

<400> 11
tcgagccggg cagtggggtc cgcatcgtgg tggagtactg tgaaccctgc ggcttcgagg 60
cgacctacct ggagctggcc agtgctgtga aggagcagta tccgggcatc gagatcgagt 120
cgcgcctcgg gggcacaggt gcctttgaga tagagataaa tggacagctg gtgttctcca 180
agctggagaa tgggggcttt ccctatgaga aagatctcat tgaggccatc cgaagagcca 240
gtaatggaga aaccctagaa aagatcacca acagccgtcc tccctgcgtc atcctgtgac 300
tgcacaggac tctgggttcc tgctctgttc tggggtccaa accttggtct ccctttggtc 360
ctgctgggag ctccccctgc ctctttcccc tacttag 397

<210> 12
<211> 389
<212> DNA
<213> Homo sapiens

<400> 12
ggcagacgtc cgtagcgccc cctcccgagg aggtcgagcc gggcagtggg gtccgcatcg 60
tggtggagta ctgtgaaccc tgcggcttcg aggcgaccta cctggagctg gccagtgctg 120
tgaaggagca gtatccgggc atcgagatcg agtcgcgcct cgggggcaca ggtgcctttg 180
agatagagat aaatggacag ctggtgttct ccaagctgga gaatgggggc ttccctatga 240
gaaagatctc attgaggcca tccgaagagc cagtaatgga gaaaccctag aaaagatcac 300
caacagccgt cctccctgcg tcatcctgtg actgcacagg actctgggtt cctgctctgt 360
tctggggtcc aaaccttggt ctccctttg 389

<210> 13
<211> 469
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (407)..(407)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (416)..(416)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (446)..(446)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (461)..(461)
<223> n is any nucleotide of a, t, g or c

<400> 13
ccggagcaga cgtccgtagc gccccctccc gaggaggtcg agccgggcag tggggtccgc 60
atcgtggtgg agtactgtga accctgcggc ttcgaggcga cctacctgga gctggccagt 120
gctgtgaagg agcagtatcc gggcatcgag atcgagtcgc gcctcggggg cacaggtgcc 180
tttgagatag agataaatgg acagctggtg ttctccaagc tggagaatgg gggctttccc 240
tatgagaaag atctcattga ggccatccga agagccagta atggagaaac cctagaaaag 300
atcaccaaca gccgtcctcc ctgcgtcatc ctgttgactt gcacaggact ttgggttcct 360
gctctgttct tggggtccaa acctttggtc ttccctttg ttcctgnttg gggagntccc 420
ccttgcnttt ttcccttatt taggtncttt agcaaagaga ncttggctt 469

C1

<210> 14
<211> 608
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)..(16)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (26)..(26)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (31)..(31)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (34)..(34)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (523)..(523)

<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (525)..(525)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (597)..(597)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (599)..(599)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (605)..(605)
<223> n is any nucleotide of a, t, g or c

<400> 14
caggggccga gcggnngcca gcgacngacg ngangccggg gcagacgtcc gtagcgcccc 60
ctcccgagga ggtcgagccg ggcagtgggg tccgcatcgt ggtggagtac tgtgaaccct 120
gcggcttcga ggcgacctac ctggagctgg ccagtgctgt gaaggagcag tatccgggca 180
tcgagatcga gtcgcgcctc gggggcacag gtgcctttga gatagagata aatggacagc 240
tggtgttctc caagctggag aatgggggct ttccctatga gaaagatctc attgaggcca 300
tccgaagagc caagtaatgg agaaacccta gaaaagatca ccaacaagcc cgtcctccct 360
gcgtcatcct gtgactgcac agggactctg ggttcctgct ctcccggatc tgtctccttc 420
ctctagccag cagtatggac agctggaccc cctgaaactt tcctctcctc ttaactgggc 480
agagtgttgt ctctccccaa atttattaaa actaaaaatg gantncattc ctctgaaagc 540
aaaacaaatt cataattggg tgatattaat agagagggtt ttcggaagca gatttgntna 600
tatgnaat 608

<210> 15
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (18)..(21)
<223> n is any nucleotide of a, t, g or c

<220>

<221> misc_feature
<222> (23)..(23)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (63)..(63)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (365)..(365)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (408)..(408)
<223> n is any nucleotide of a, t, g or c

<400> 15
ggncgccgnc gantgagnnn nangccgggg cagacgtccg tagcgccccc tcccgaggag 60
ttngagccgg gcagtggggt ccgcatcgtg gtggagtact gtgaaccctg cggcttcgag 120
gcgacctacc tggagctggc cagtgctgtg aaggagcagt atccgggcat cgagatcgag 180
tcgcgcctcg ggggcacagg tgcttttgag atagagataa atggacagct ggtgttctcc 240
aagctggaga atgggggctt tccctatgag aaagatctca ttgaggccat ccgaagagcc 300
agtaatggag aaaccctaga aaagatcacc aacagccgtt cctccctgcg tcatcctgtg 360
actgncacag gactctgggt tncctgctct gtttctgggg tccaaacntt g 411

<210> 16
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (412)..(412)

<223> n is any nucleotide of a, t, g or c

<400> 16
gcgcgnattg agcgtangcc ggggcagacg tcngtagcgc cccctcccga ggagttcgag 60
ccacgcagtg gggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc 120
tacctggagc tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc 180
ctcgggggca caggtgcttt gagatagaga taaatggaca gctggtgttc tccaagctgg 240
agaatggggg ctttccctat gagaaagatc tcattgaggc catccgaaga gccagtaatg 300
gagaaaccct agaaaagatc accaacagcc gtcctccctg gcgttcatcc tgtggactgg 360
cacaggactt ctgggtttcc tgctcnggtt tctggggttc caaaccttgg tntccctttt 420

<210> 17
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (20)..(20)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (48)..(48)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (357)..(357)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (409)..(409)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (415)..(415)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (420)..(420)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (431)..(431)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (441)..(441)
<223> n is any nucleotide of a, t, g or c

<400> 17
gcggcggncc ncgatgaggn gnagccgggg cagacgtccg tagcgccncc tcccgaggag 60
gtcgagccgg gcagtggggt ccgcatcgtg gtggagtact gtgaaccctg cggcttcgag 120
gcgacctacc tggagctggc cagtgctgtg aaggagcagt atccgggcat cgagatcgag 180
tcgcgcctcg ggggcacagg tgcctttgag atagagataa atggacagct ggtgttctcc 240
aagctggaga atnggggctt tccctatgag aaagatctca ttgaggccat ccgaagagcc 300
agtaatggag aaaccctaga aaagatcacc aacagccgtc ctccctgcgt catcctntga 360
ctgcacagga cttttgggtt tcctgctctg tttctggggg ttccaaacnt tggtnttccn 420
tttgtccctg nttgggagct nccccctt 447

C1

<210> 18
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is any nucleotide of a, t, g or c

<400> 18
gcgaccggat gggagnagcc ggggcagacg tccgtagcgc cccctcccga ggaggtcgag 60
ccgggcagtg gggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc 120
tacctggagc tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc 180
ctcgggggca caggtgcttt gagatagaga taaatggaca gctggtgttc tccaagctgg 240
agaatggggg ctttccctat gagaaagatc tcattgaggc catccgaaga gccagtaatg 300
gagaaaccct agaaaagatc accaac 326

<210> 19
<211> 584
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is any nucleotide of a, t, g or c

<400> 19
tagcgcnggc ggggagccgg ggcagacgtc cgtagcgccc cctcccgagg aggtcgagcc 60
gggcagtggg gtccgcatcg tggtggagta ctgtgaaccc tgcggcttcg aggcgaccta 120
cctggagctg gccagtgctg tgaaggagca gtatccgggc atcgagatcg agtcgcgcct 180
cgggggcaca ggtgcctttg agatagagat aaatggacag ctggtgttct ccaagctgga 240
gaatgggggc tttccctatg agaaagatct cattgaggcc atccgaagag ccagtaatgg 300
agaaacccta gaaaagatca ccaacagccg tcctccctgc gtcatcctgt gactgcacag 360

gactctgggt tcctgctctg ttctggggtc caaaccttgg tctccctttg gtcctgctgg 420
gagctccccc tgcctctttc ccctacttag ctccttagca aagagaccct ggcctccact 480
ttgccctttg ggtacaaaga aggaatagaa gattccgtgg ccttgggggc aggagagaga 540
cactctccat gaacacttct ccagccacct catacccccc tccc 584

<210> 20
<211> 488
<212> DNA
<213> Homo sapiens

<400> 20
cacgaggcga gcggagccgg ccgcgatgag cggggagccg gggcagacgt ccgtagcgcc 60
ccctcccgag gaggtcgagc cgggcagtgg ggtccgcatc gtggtggagt actgtgaacc 120
ctgcggcttc gaggcgacct acctggagct ggccagtgct gtgaaggagc agtatccggg 180
catcgagatc tactcgcgcc tcgggggcac aggtgccttt gagatagaga taaatggaca 240
gctggtgttc tccaagctgg agaatggggg ctttccctat gagaaagatc tcattgaggc 300
catccgaaga gccagtaatg gagaaaccct agaaaagatc accaacagcc gtcctccctg 360
cgtcatcctg tgactgcaca ggactctggg ttcctgctct gttctggggt ccaaaccttg 420
gtctcccttt ggtcctgctg ggagctcccc ctgcctcttt cccctactta gctccttagc 480
aaagagac 488

<210> 21
<211> 420
<212> DNA
<213> Homo sapiens

C1

<400> 21
cacgagggcg ccccctcccg aggaggtcga gccgggcagt ggggtccgca tcgtggtgga 60
gtactgtgaa ccctgcggct tcgaggcgac ctacctggag ctggccagtg ctgtgaagga 120
gcagtatccg ggcatcgaga tcgagtcgcg cctcgggggc acaggtgcct ttgagataga 180
gataaatgga cagctggtgt tctccaagct ggagaatggg ggctttccct atgagaaaga 240
tctcattgag gccatccgaa gagccagtaa tggagaaacc ctagaaaaga tcaccaacag 300
ccgtcctccc tgcgtcatcc tgtgactgca caggactctg ggttcctgct ctgttctggg 360
gtccaaacct tggtctccct ttggtcctgc tgggagctcc ccctgcctct ttcccctact 420

<210> 22
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is any nucleotide of a, t, g or c

<400> 22
tgggtaattg gattctcacc cctccgccct acgcactgca ctncgactct tagagatccc 60
cggacgagcc gcagtcagac gtccgtagcg ccccctcccg aggaggttta gccgggcagt 120
ggggtccgca tcgtggtgga gtactgtgaa ccctgcggct tcgaggcgac ctacctggag 180
ctggccagtg ctgtgaagga gcagtatccg ggcatcgaga tcgagtcgcg cctcgggggc 240
acaggtgcct ttgagataga gataaatgga cagctggtgt tctccaagct ggagaatggg 300
ggctttccct atgagaaaga tctcattgag gccatccgaa gagccagtaa tggagaaacc 360
ctagaaaaga tcaccaacag ccgtcctccc tgcgtcatcc tgtgactgca caggactctg 420
ggttcctgc 429

<210> 23
<211> 343
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (23)..(23)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (28)..(29)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is any nucleotide of a, t, g or c

<400> 23
gggcccgagc ggncgccngc gantgagnng tangccgggg cagacgtccg tagcgccccc 60
tcccgaggag tcgagccggg cagtggggtc cgcatcgtgg tggagtactg tgaaccctgc 120
ggcttcgagg cgacctacct ggagctggcc agtgctgtga aggagcagta tccgggcatc 180
gagatcgagt cgcgcctcgg gggcacaggt gctttgagat agagataaat ggacagctgg 240
tgttctccaa gctggagaat gggggctttc cctatgagaa agatctcatt gaggccatcc 300
gaanagccag taatggagaa accctanaaa agatcaccaa cag 343

<210> 24
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is any nucleotide of a, t, g or c

<220>

<221> misc_feature
<222> (28)..(28)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (45)..(47)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (68)..(68)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (77)..(77)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (389)..(389)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (436)..(436)
<223> n is any nucleotide of a, t, g or c

<400> 24
atttcggcac agggcncgna ttgagcgnan gccggggcag acgtnnntag cgccccctcc 60
cgaggagntc gagccgncca gtggggtccg catcgtggtg gagtactgtg aaccctgcgg 120
cttcgaggcg acctacctgg agctggccag tgctgtgaag gagcagtatc cgggcatcga 180
gatcgagtcg cgcctcgggg gcacaggtgc ttttgagata gagataaatg gacagctggt 240
gttctccaag ctggagaatg ggggctttcc ctatgagaaa gatctcattg aggccatccg 300
aagagccagt aatggagaaa ccctagaaaa gatcaccaac agccgtcctc cctgcgtcat 360
cctgtggact gcacaggaac tctgggttnc ctgtcttctg tttctggggg tccaaacctt 420
ggttttccct ttggtn 436

<210> 25
<211> 323
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature

<222> (319)..(319)
<223> n is any nucleotide of a, t, g or c

<400> 25
ccgaggcaga cgtccgtagc gccccctccc gaggaggtcg agccgggcag tggggtccgc 60
atcgtggtgg agtactgtga accctgcggc ttcgaggcga cctacctgga gctggccagt 120
nctgtgaagg agcagtatcc gggcatcgag atcgagtcgc gcctcggggg cacaggtgcc 180
tttgagatag agataaatgg acagctggtg ttctccaagc tggagaatng gggctttccc 240
tatgagaaag atctcattga ggccatccga agagccagta atggagaaac cctagaaaag 300
atcaccaaca gccgtcctnc ctg 323

<210> 26
<211> 389
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (55)..(55)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (365)..(365)
<223> n is any nucleotide of a, t, g or c

<400> 26
gccnggagca gacgtccgta gcgccccctc ccgaggaggt cgagccgggc agtcngggtc 60
cgcatcgtgg tggagtactg tgaaccctgc ggcttcgagg cgacctacct ggagctggcc 120
agtgctgtga aggagcagta tccgggcatc gagatcgagt cgcgcctcgg gggcacaggt 180
gcctttgaga tagagataaa tggacagctg gtgttctcca agctggagaa tgggggcttt 240
ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatggaga aaccctagaa 300
aagatcacca acagccgtcc tccctgcgtt catcctgttg actgcacagg acttctgggt 360
tcctngttct gttcttgggg ttccaaact 389

<210> 27
<211> 460
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (337)..(337)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (393)..(393)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (418)..(418)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (428)..(428)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (440)..(440)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (446)..(446)
<223> n is any nucleotide of a, t, g or c

<400> 27
agntcgagcc gggcagtggg gtccgcatcg tggtggagta ctgtgaaccc tgcggcttcg 60
aggcgaccta cctggagctg gccagtgctg tgaaggagca gtatccgggc atcgagatcg 120
agtcgcgcct cgggggcaca ggtgcttttg agatagagat aaatggacag ctggtgttct 180
ccaagctgga gaatgggggc tttccctatg agaaagatct cattgaggcc atccgaagag 240
ccagtaatgg agaaacccta gaaaagatca ccaacagccg tcctccctgc gtcatcctgt 300
gactgcacag gactctgggg tcctgcttct ggttctnggg gtccaaaact tgggtcttcc 360
ttttgggcct gcttgggact ttcccctggc tcnttttccc caatttagct cccttagnca 420
aaaagaanct tgggcttcan atttgncctt ttgggaaaag 460

<210> 28
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (278)..(278)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (376)..(376)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (405)..(405)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (417)..(417)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (434)..(434)
<223> n is any nucleotide of a, t, g or c

<400> 28

aagaaagtga accctgcggc ttcgaggcga cctacctgga gctggccagt gctgtgaagg 60
agcagtatcc gggcatcgag atcgagtcgc gcctcggggg cacaggtgct ttgagataga 120
gataaatgga cagctggtgt tctccaagct ggagaatggg ggctttccct atgagaaaga 180
tctcattgag gccatccgaa gagccagtaa tggagaaacc ctagaaaaga tcaccaacag 240
ccgtcctccc tgcgtcatcc tgtgactgca caggactnac tctgggttcc tgctctgttc 300
tggggtccaa accttgggtc tcactttggt cctgctggga agctcccct gcctcttttc 360
ccctacttaa gctccntaag caaaagagaa ccttgggcct ccaantttgg ccctttnggt 420
acaaaaagaa aggnat 436

<210> 29
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (209)..(209)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (254)..(254)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (309)..(309)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (354)..(354)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (369)..(369)
<223> n is any nucleotide of a, t, g or c

<400> 29
cggcacncgc ggattgaggt gnangccggg gcagacgtcc gtagcgcccc ctcccgagga 60

gttcgagccg ggcagtgggg tccgcatcgt ggtggagtac tgtgaaccct gcggcttcga 120
ggcgacctac ctggagctgg ccagtgctgt gaaggagcag tatccgggca tcgagatcga 180
gtcgcgcctc gggggcacag gtgcttttna gatagagata aatggacagc tggtgttctc 240
caagctggag aatnggggct ttccctatga gaaagatctt cattgaggcc atccgaagag 300
ccagtaatng agaaacccta gaaaagatca ccaacagccg tccttccttg cgtncatcct 360
gttnacttnc acaaggattc ttgggtttcc t 391

<210> 30
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (53)..(53)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (378)..(378)
<223> n is any nucleotide of a, t, g or c

C1

<400> 30
gcggggagcg ggngcagacg tccgtagcgc cccctcccga ggaggtcgag ccnggcagtg 60
gggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc tacctggagc 120
tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc ctcgggggca 180
caggtgcttt gagatagaga taaatggaca gctggtgttc tccaagctgg agaatggggg 240
ctttccctat gagaaagatc ttcattgagg ccatccgaag agccagtaat gggagaaacc 300
cttagaaaag attcaccaac agccgttcct ccctggcgtt cattccttgt tgaattgcac 360
agggattttg gggtttcntg ttttgt 386

<210> 31
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (226)..(226)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (315)..(315)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is any nucleotide of a, t, g or c

<400> 31
gcgcatcgtg gtggagtact gtgaaccctg cggcttcgag gcgacctacc tggagctggc 60
cagtgctgtg aaggagcagt atccgggcat cgagatcgag tcgcgcctcg ggggcacagg 120
tgctttgaga tagagataaa tggacagctg gtgttctcca agctggagaa tgggggcttt 180

ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatngaga aaccctagaa 240
aagatcacca acagccgtcc tcccttgcgt catcctgtga ctgcacaggg attctgggtt 300
ccttgttctg ttctnggggt tcaaaccttt gggttncctt ttggtcct 348

<210> 32
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)..(28)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (56)..(57)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (157)..(157)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (215)..(215)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is any nucleotide of a, t, g or c

<400> 32
cccgagcgga gcggccgcga tgagcgnnga gccggggcag acgtccgtag cgcccnntcc 60
cgaggaggtc gagccgggca gtggggtccg catcgtggtg gagtactgtn aaccctgcgg 120
cttcgaggcg acctacctgg agctggccag tgctgtnaag gagcagtatc cgggcatcga 180
gatcgagtcg cgcctcgggg gcacaggtgc ctttnagata gagataaatg gacagctggt 240
gttctccaag ctggagaatg gggggctttc cctatgagaa agatctcatt gaggccatcc 300
gaagngccag taaatggaga aaccctagaa aagatcacca acag 344

<210> 33
<211> 532
<212> DNA
<213> Homo sapiens

<400> 33
tttagtgttt gtagcgccac tttactgcca atagctgaca ttgccctggg ttaggggaga 60
ataaataaaa tctgtggcat cagacaggta ttaccgaggc gaagagtgga ctgggctttc 120
gtgggcactt accctgggaa gggggtatga ggtggctgga gaagtgttca tggagagtgt 180
ctctctcctg cccccaaggc cacggaatct tctattcctt ctttgtaccc aaagggcaaa 240
gtggaggcca gggtctcttt gctaaggagc taagtagggg aaagaggcag ggggagctcc 300
cagcaggacc aaagggagac caaggtttgg accccagaac agagcaggaa cccagagtcc 360
tgtgcagtca caggatgacg cagggaggac ggctgttggt gatcttttct agggtttctc 420

cattactggc tcttcggatg gcctcaatga gatctttctc atagggaaag cccccattct 480
ccagcttgga gaacaccagc tgtccattta tctctatctc aaaggcacct gt 532

<210> 34
<211> 309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (225)..(225)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (289)..(289)
<223> n is any nucleotide of a, t, g or c

C1
<220>
<221> misc_feature
<222> (293)..(293)
<223> n is any nucleotide of a, t, g or c

<400> 34
gcggagcgcn ccgcgatgag cggcgagccg gggcagacgt ccgtagcgcc ccctcccgag 60
gaggtcgagc cgggcagtgg ggtccgcatc gtggtggagt actgtgaacc ctgcggcttc 120
gaggcgacct acctggagct ggccatgctg tgaaggagca gtatccgggc atcgagatcg 180
agtcgcgcct cgggggcaca ggtgcctttg agatagagat aaatngacan ctggtgttct 240
tcaagctgga gaatgggggc tttccctatg agaaagatct cattgaggnc atncgaagag 300
ccataatgg 309

<210> 35
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (393)..(393)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (482)..(482)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (503)..(503)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (520)..(520)
<223> n is any nucleotide of a, t, g or c

<400> 35
agtgtttgta gcgccacttt actgccaata gctgacattg ccctgggtta ggggagaata 60
aataaaatct gtggcatcag acaggtatta ccgaggcgaa gagtggactg ggctttcgtg 120
ggcacttacc ctgggaaggg ggtatgaggt tggctggaga agtgttcatg gagagtgtct 180
ctctcctgcc cccaaggcca cggaatcttc tattccttct ttgtacccaa agggcaaagt 240
ggaggccagg gtctctttgc taaggagcta agtaggggaa agaggcaggg ggagctccca 300
gcaggaccaa agggagacca aggtttggac cccagaacag agcaggaacc cagagtcctg 360
tgcagtcaca ggatgacgca gggaggacgg ctnttggtga tcttttctag ggtttctcca 420
ttactggctc ttcggatggc ctcaatgaga tctttctcag gggaaagccc cattctccag 480
cntggagaac accagctgtc canttatctc tatctcaaan gcacctgtgc cccgaagcgc 540
gactcgattt tcgatgcccg gatactgctc c 571

<210> 36
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is any nucleotide of a, t, g or c

<400> 36
ggggcagacg tccgtancgc cccctcccga ggaggtcgag ccgggcagtg gggtccgcat 60
cgtggtggag tactgtgaac cctgcggctt cgaggcgacc tacctggagc tggccagtgc 120
tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc ctcgggggca caggtgcttt 180
gagatagaga taaatggaca gctggtgttc tccaagctgg agaatggggg ctttcccctg 240
agaaagatct catttaggcc cat 263

<210> 37
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (299)..(299)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (387)..(387)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (520)..(520)
<223> n is any nucleotide of a, t, g or c

<400> 37

nttttttagtg tttgtagcgc cactttactg ccaatagctg acattgccct gggttagggg 60
agaataaata aaatctgtgg catcagacag gtattaccga ggcgaagagt ggactgggct 120
ttcgtgggca cttaccctgg gaaggggtta tgaggtggct ggagaagtgt tcatggagag 180
tgtctctctc ctgcccccaa ggccacggaa tcttctattc cttctttgta cccaaagggc 240
aaagtggagg ccagggtctc tttgctaagg agctaagtag gggaaagagg caggggganc 300
tcccagcagg accaaaggga gaccaaggtt tggaccccag aacagagcag gaacccagag 360
tccttgtgca gtcacaggat gacgcangga ggacggctgt tggtgatctt ttctagggtt 420
tctccattac tggctcttcg gatggcctca atgagatctt tctcataggg aaagccccca 480
ttctccagct tggagaacac cagctgtcca attatctccn tctcaaaa 528

<210> 38
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (29)..(29)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (188)..(188)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (254)..(254)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is any nucleotide of a, t, g or c

<400> 38
cccgagcgga ncggccgcga tgagcgagng agccggggca gacgtccgta gcgccccctc 60
ccgaggaggt cgagccgggc agtggggtcc gcatcgtggt ggagtactgt aaaccctgcg 120
gcttcgaggc gacctacctg gagctggcca gtgctgtnaa ggagcagtat ccgggcatcg 180
agatcgantc gcgcctcggg ggcacaggtg cctttaagat agagataaat ggacagctgg 240
tgttctccaa gctngagaat gggggctttn cctatgagaa agatctcatt 290

<210> 39
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (101)..(101)

<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (113)..(113)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (172)..(172)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (285)..(285)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (297)..(297)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (308)..(308)
<223> n is any nucleotide of a, t, g or c

<400> 39
ggtggagtac tgtgaaccct gcggcttcga ggcgacctac ctggagctgg ccagtgctgt 60
gaaggagcag tatccgggca tcgagatcga gtcgcgcctc nggggcacag gtnctttgag 120
atagagataa atggacagct ggtgttctcc aagctggaga atgggggctt tncctatgag 180
aaagatctca ttgaggccat ccgaagagcc agtaatggag aaacctagaa aagttcacca 240
acagccgtcc ttcctncgtc attctattga ctgcacagga ttctnggttt cntgctntgt 300
ttttgggntc caaacctttg 320

<210> 40
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (258)..(258)
<223> n is any nucleotide of a, t, g or c

<220>

<221> misc_feature
<222> (267)..(267)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (275)..(275)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (282)..(282)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (310)..(310)
<223> n is any nucleotide of a, t, g or c

<400> 40
ggagcagtat ccgggcatcg agatcgagtc gcgcctcggg ggcacaggtg ctttgagata 60
gagataaatg gacagctggt gttctccaag ctggagaatg ggggctttcc ctatgagaaa 120
gatctcattg aggccatccg aagagccagt aatnggagaa accctagaaa agatcaccaa 180
cagccgtcct acctgcgtca tcctgtgact gcacaggact ctgggttcct gctctgttct 240
gggggtccaa accttggnct tcctttnggt ccctnttggg angttcccct tgcttttttt 300
ccctaattan gttcctagga a 321

<210> 41
<211> 456
<212> DNA
<213> Homo sapiens

<400> 41
gcggggagcg gggcagacgt ccgtagcgcc ccctcccgag gaggtcgagc tgctgcagtg 60
gggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc tacctggagc 120
tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc ctcgggggac 180
aggtgctttg agatagagat aaatggacag ctggtgttct ccaagctgga gaatgggggc 240
ttccctatga gaaagatgtg agtatttaca gcgttgggag gacctcttgg tcaccctacc 300
ccaacagtgc atcatcctgt cattccactc ctctagctca ttgaggccat ccgaagagcc 360
agtaatggag aaaccctaga aaagatcacc aacagccgtc ctccctgcgt catcctgtga 420
ctgcacagac tctgggttct gctctgttct ggggtc 456

<210> 42
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (63)..(63)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (69)..(69)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (316)..(316)

<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (348)..(348)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (368)..(368)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (452)..(452)
<223> n is any nucleotide of a, t, g or c

<400> 42
ccaatagctg acattgccct gggttagggg agaataaata aaatctgtgg catcagacag 60
gtnttaccna ggcgaagagt ggactgggct ttcgtgggca cttaccctgg gaaggggtga 120
tgaggtggct ggagaagttt tcatggagag tgtctctctc ctgcccccaa ggccacggaa 180
tcttctattc cttctttgta cccaaagggc aaagtggagg ccagggtctc tttgctaagg 240
agctaagtag gggaaagagg caggggggagc tcccagcagg accaaaggga gaccaaggtt 300
tggaccccag aacagngcag gaacccagag tcctgtgcag tcacaggntg acgcagggag 360
gacggctntt tggtgatctt ttctagggtt tctccttact ggctcttcgg atggcctcaa 420
tgagnttttc tcatagggaa agcccccttt tncagttt 458

<210> 43
<211> 452
<212> DNA
<213> Homo sapiens

<400> 43
ttgtgtttgt agcgccactt tactgccaat agctgacatt gccctgggtt aggggagaat 60
aaataaaatc tgtggcatca gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg gggtatgagg tggctggaga agtgttcatg gagagtgtct 180
ctctcctgcc cccaaggcca cggaatcttc tattccttct ttgtacccaa agggcaaagt 240
ggaggccagg gtctctttgc taaggagcta agtaggggaa agaggcaggg ggagctccca 300
gcaggaccaa agggagacca aggtttggac cccagaacag aacaggaccc cagagtcctg 360
tgcagtcaca ggatgacgca gggaggacgg ctgttggtga tcttttctag ggtttctcca 420
ttactggctc ttcggatggc ctcaatgagc ta 452

<210> 44
<211> 444
<212> DNA
<213> Homo sapiens

<400> 44
agtgtttgta gcgccacttt actgccaata gctgacattg ccctgggtta aggggagaata 60
aataaaatct gtggcatcag acaggtatta ccgaggcgaa gagtggactg ggctttcgtg 120
ggcacttacc ctgggaaggg ggtatgaggt ggctggagaa gtgttcatgg agagtgtctc 180
tctcctgccc ccaaggccac ggaatcttct attccttctt tgtacccaaa gggcaaagtg 240
gaggccaggg tctctttgct aaggagctaa gtaggggaaa gaggcagggg gagctcccag 300
caggaccaaa gggagaccaa ggtttggacc ccagaacaga gcaggaaccc agagtcctgt 360
gcagtcacag gatgacgcag ggaggacggc tgttggtgat cttttctagg gtttctccat 420

tactggctct tcggatggcc tcaa 444

<210> 45
<211> 232
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (23)..(23)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (147)..(147)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is any nucleotide of a, t, g or c

<400> 45
ggagccggcc gcnatgagcg ggngagccgg ggcagacgtc cgtagcgccc cctcccgagg 60
aggtcgagcc gggcagtggg gtccgcatcg tggtggagta ctgtaaaccc tgcggcttcg 120
aggcgaccta cctggagctg gccagtnctg tgaaggagca gtatccgggc atcgagatcg 180
antcgcgcct cgggggcaca ggtgccttta agatagagat aaatggacag ct 232

<210> 46
<211> 456
<212> DNA
<213> Homo sapiens

<400> 46
ttttttttta gtgtttgtag cgccacttta ctgccaatag ctgacattgc cctgggttag 60
gggagaataa ataaaatctg tggcatcaga caggtattac cgaggcgaag agtggactgg 120
gctttcgtgg gcacttaccc tgggaagggg gtatgaggtg gctggagaag tgttcatgga 180
gagtgtctct ctcctgcccc caaggccacg gaatcttcta ttccttcttt gtacccaaag 240
ggcaaagtgg aggccagggt ctctttgcta aggagctaag taggggaaag aggcaggggg 300
agctcccagc aggaccaaag ggagaccaag gtttggaccc cagaacagag caggaaccca 360
gagtcctgtg cagtcacagg atgacgcagg gaggacggct gttggtgatc ttttctaggg 420
tttctccatt actggctctt cggatggctc aatgag 456

<210> 47
<211> 556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (430)..(430)
<223> n is any nucleotide of a, t, g or c

<220>

<221> misc_feature
<222> (488)..(488)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (527)..(527)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (535)..(535)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (543)..(543)
<223> n is any nucleotide of a, t, g or c

<400> 47
gtatgcattt tatgcctcaa taaaaagttt agggaaaaaa acctcttatt cttgtacaga 60
atccatggtt gttctctata tggaacagtt agtaaagttc tgggagtcct aagatctaaa 120
aaaagaaatc taaccatcca acaccaccta aagccatcac tcagatggag gggccatcac 180
gaaaggatac ttttggaggt ggtctgcaaa gaaaaaactt ctagaaaaag acaacaaaat 240
cggccaggtg tggtggctca cgcctgtaat cccagcgctt tgggaggccg aggcgggcag 300
atcacgaggt caagagttcg agaccagcct gaccaacata gtggaaaccc tggtctccac 360
ttaaaaatta caaaaaatta actggggcgt ggttggccgc gcacctggta atcccagcta 420
cttttgggan ggcttggggg caggaagaat cgctttgaac ctgggaaggt tggaggttgc 480
agttgaancc gaggttcgca ccactgcatt tccagccttg ggggaanagg gcganactcc 540
gtntccaaaa aataat 556

<210> 48
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (371)..(371)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (393)..(393)
<223> n is any nucleotide of a, t, g or c

<400> 48
tttagngttt gtagcgccac tttactgcca atagctgaca ttgccctggg ttaggggaga 60
ataaataaaa tctgtggcat cagacaggta ttaccgaggc gaagagtgga ctgggctttc 120
gtgggcactt accctgggaa ggggtatgag gtggctggag aagtgttcat ggagagtgtc 180
tctctcctgc ccccaaggcc acggaatctt ctattccttc tttgtaccca aaggcaaagt 240
ggaggccagg gtctctttgc taaggagcta agtaggggaa aaaggcaggg ggagctccca 300
gcaggaccaa agggagacca aggtttggac cccagaacag agcaggaacc cagagtcctg 360
tgcagtcaca ngatgacgca gggaggacgg ctnttggtga tcttttctag ggtttctcca 420
ttacttgctc ttcggatggc ctcaatgaga tctttctcat a 461

<210> 49
<211> 434
<212> DNA
<213> Homo sapiens

<400> 49
gtttgtagcg ccactttact gccaatagct gacattgccc tgggttaggg gagaataaat 60
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc tttcgtgggc 120
acttaccctg ggaaggggt atgaggtggc tggagaagtg ttcatggaga gtgtctctct 180
cctgccccca aggccacgga atcttctatt ccttctttgt acccaaaggg caaagtggag 240
gccagggtct ctttgctaag gagctaagta ggggaaagag gcaggggggag ctcccagcag 300
gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga gtcctgtgca 360
gtcacaggat gacgcaggga ggacggctgt tggtgatctt ttctagggtt tctccattac 420
tggctcttcg gatg 434

<210> 50
<211> 434
<212> DNA
<213> Homo sapiens

<400> 50
gtttgtagcg ccactttact gccaatagct gacattgccc tgggttaggg gagaataaat 60
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc tttcgtgggc 120
acttaccctg ggaaggggt atgaggtggc tggagaagtg ttcatggaga gtgtctctct 180
cctgccccca aggccacgga atcttctatt ccttctttgt acccaaaggg caaagtggag 240
gccagggtct ctttgctaag gagctaagta ggggaaagag gcaggggggag ctcccagcag 300
gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga gtcctgtgca 360
gtcacaggat gacgcaggga ggacggctgt tggtgatctt ttctagggtt tctccattac 420
tggctcttcg gatg 434

<210> 51
<211> 459
<212> DNA
<213> Homo sapiens

<400> 51
tcagacctca ttgaggccat ccgaagagcc aataatggag aaaccctaga aaagatcacc 60
aacagccgtc ctccctgcgt catcctgtga ctgcacagga ctctgggttc ctgctctgtt 120
ctggggtcca aaccttggtc tccctttggt cctgctggga gctccccctg cctctttccc 180
ctacttagct ccttagcaaa gagaccctgg cctccacttt gccctttggt acaaagaagg 240
aatagaagat tccgtggcct tgggggcagg agagagacac tctccatgaa cacttctcca 300
gccacctcat acccccttcc cagggtaagt gcccacgaaa gcccagtcca ctcttcgcct 360
cggtaatacc tgtctgatgc cacagatttt atttattctc cctaacccag ggcaatgtca 420
gctattggca gtaaagtggc gctacaaaca ctaaaaaaa 459

<210> 52
<211> 451
<212> DNA
<213> Homo sapiens

<400> 52
ttttttttt ttagtgtttg tagcgccact ttactgccaa tagctgacat tgccctgggt 60
taggggagaa taaataaaat ctgtggcatc agacaggtat taccgaggcg aagagtggac 120
tgggctttcg tgggcactta ccctgggaag ggggtatgag gtggctggag aagtgttcat 180
ggagagtgtc tctctcctgc ccccaaggcc acggaatctt ctattccttc tttgtaccca 240
aaggggcaaa gtggaggcca gggtctcttt gctaaggagc taagtagggg aaagaggcag 300
ggggagctcc cagcaggacc aaagggagac caaggtttgg accccagaac agagcaggaa 360
cccagagtcc tgtgcagtca caggatgacg cagggaggac ggctgttggt gatcttttct 420
agggtttctc cattactggc tcttcggatg g 451

<210> 53
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (244)..(245)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (378)..(378)
<223> n is any nucleotide of a, t, g or c

<400> 53
tttttagtgt ttgtagcgcc actttactgc caatagctga cattgccctg ggttagggga 60
gaataaataa aatctgtggc atcagacagg tattaccgag gcgaagagtg gactgggctt 120
tcgtgggcac ttaccctggg aaggggggtat gaggtggctg gagaagtgtt catggagagt 180
gtctctctcc tgcccccaag gccacggaat cttctattcc ttctttgtac ccaaaggcaa 240
agtnnaggcc agggtctctt tgctaaggag ctaagtaggg gaaagaggca gggggagctc 300
ccagcaggac caaagggaga ccaaggtttg gaccccagaa cagagcagga acccagagtc 360
ctgtgcagtc acaggatnac gcagggagga cggctgttgg tgatcttttc tagggtttct 420
ccattactgg ctcttcggat ggcctca 447

<210> 54
<211> 473
<212> DNA
<213> Homo sapiens

<400> 54
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctgggtt aggggagaat 60
aaataaaatc tgtggcatca gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg gggtatgagg tggctggaga agtgttcatg gagagtgtct 180
cactcctgcc cccaaggcca cggaatcttc tattccttct ttgtacccaa aggcaaagtg 240
gaggccaggg tctctttgct aaggagctaa gtaggggaaa gaggcagggg gagctcccag 300
caggaccaaa gggagaccaa ggtttgggac cccagaacag agcaggaacc cagagtcctg 360
ttgcagtcac aggatgacgc agggaggacg gctgttggtg atcttttctt agggtttctc 420
cattacttgc tctttcggat ggcctcaatg agatcttttc tcatagggga aat 473

<210> 55
<211> 454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (373)..(373)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (445)..(445)
<223> n is any nucleotide of a, t, g or c

<400> 55
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctgggtt aggggagaat 60
aaataaaatc tgtggcatca gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg gggtatgagg tggctggaga agtgttcatg gagagtgtct 180

ctctcctgcc cccaaggcca cggaatcttc tattccttct ttgtacccaa agggcaaagt 240
ggaggccagg gtctctttgc taaggagcta agtaggggaa agaggcaggg ggagctccca 300
gcaggaccaa agggagacca aggtttggac cccagaacag agcaggaacc cagagtcctg 360
tgcagtcaca ggnttgaccg cagggaggac cggctgttgg tgatcctttt ctagggtttc 420
tccattactg gctcttccgg atggnctcaa tgag 454

<210> 56
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (390)..(390)
<223> n is any nucleotide of a, t, g or c

<400> 56
tgacattgcc ctgggttagg ggagaataaa taaaatctgt ggcatcagac aggtattacc 60
gaggcgaaga gtggactggg ctttcgtggg cacttaccct gggaaggggg tatgaggtgg 120
ctggagaagt gttcatggag agtgtctctc tcctgccccc aaggccacgg aatcttctat 180
tccttctttg tacccaaagg gcaaagtgga ggccagggtc tctttgctaa ggagctaagt 240
aggggaaaga ggcaggggga gctcccagca ggaccaaagg gagaccaagg tttggacccc 300
agaacagagc aggaacccag agtcctgtgc agtcacagga tgacgcaggg aggacggctg 360
ttggtgatct tttctagggt ttccccattn actg 394

<210> 57
<211> 427
<212> DNA
<213> Homo sapiens

<400> 57
ttttttttt gtttgtagcg ccactttact gccaatagct gacattgccc tgggttaggg 60
gagaataaat aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc 120
tttcgtgggc acttaccccg ggaaggggt atgaggtggc tggagaagtg ttcatggaga 180
gtgtctctct cctgccccca aggccacgga atcttctatt ccttctttgt acccaaaggg 240
caaagtggag gccagggtct ctttgctaag gagctaagta ggggaaagag gcaggggggag 300
ctcccagcag gaccaaaggg agaccaaggt ttgtacccca gaacagagca ggaacccaga 360
gtcctgtgca gtcacaggat gacgcaggga ggacggctgt tggtgatctt ttctagggtt 420
tctccat 427

<210> 58
<211> 421
<212> DNA
<213> Homo sapiens

<400> 58
tttttagtgt ttgtagcgcc actttactgc caatagctga cattgccctg ggttagggga 60
gaataaataa aatctgtggc atcagacagg tattaccgag gcgaagagtg gactgggctt 120
tcgtgggcac ttaccctggg aaggggggtat gaggtggctg gagaagtgtt catggagagt 180
gtctctctcc tgcccccaag gccacggaat cttctattcc ttctttgtac ccaaagggca 240
aagtggaggc cagggtctct ttgctaagga gctaagtagg ggaaagaggc agggggagct 300
cccagcagga ccaaagggag accaaggttt ggaccccaga acagagcagg aacccagagt 360
cctgtgcagt cacaggatga cgcagggagg acggctgttg gtgatctttt ctagggtttc 420
t 421

<210> 59
<211> 419
<212> DNA

<213> Homo sapiens

<400> 59
ttttttagt gtttgtagcg ccactttact gccaatagct gacattgccc tgggttaggg 60
gagaataaat aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc 120
tttcgtgggc acttaccctg ggaagggggt atgaggtggc tggagaagtg ttcatggaga 180
gtgtctctct cctgccccca aggccacgga atcttctatt ccttctttgt acccaaaggg 240
caaagtggag gccagggtct ctttgctaag gagctaagta ggggaaagag gcaggggggag 300
ctcccagcag gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga 360
gtcctgtgca gtcacaggat gacgcaggga ggacggctgt tggtgatctt ttctagggt 419

<210> 60
<211> 434
<212> DNA
<213> Homo sapiens

<400> 60
tgtttgtagc gccactttac tgccaatagc tgacattgcc ctgggttagg ggagaataaa 60
taaaatctgt ggcatcagac aggtattacc gaggcgaaga gtggactggg ctttcgtggg 120
cacttaccct gggaaggggg tatgaggtgg ctggagaagt gttcatggag agtgtctctc 180
tcctgccccc aaggccacgg aatcttctat tccttctttg tacccaaagg gcaaagtgga 240
ggccagggtc tctttgctaa ggagctaagt agggggaaag aggcaggggg agctcccagc 300
aggaccaaag ggagaccaag gtttggaccc cagaacagag caggaaccca gagtcctgtg 360
cagtcacagg attgacgcag ggaggaccgg ctgttggtga tcttttctaa gggtttctcc 420
attactgggc tctt 434

<210> 61
<211> 418
<212> DNA
<213> Homo sapiens

<400> 61
agcattagtg tttgtagcgc cactttactg ccaatagctg acattgccct gggttagggg 60
agaataaata aaatctgtgg catcagacag gtattaccga ggcgaagagt ggactgggct 120
ttcgtgggca cttaccctgg gaaggggtta tgaggtggct ggagaagtgt tcatggagag 180
tgtctctctc ctgccccaa ggccacggaa tcttctattc cttctttgta cccaaagggg 240
caaagtggag gccagggtct ctttgctaag gagctaagta ggggaaagag gcaggggggag 300
ctcccagcag gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga 360
gtcctgtgca gtcacaggat gacgcaggga ggacggctgt tggtgatctt ttctaggg 418

<210> 62
<211> 403
<212> DNA
<213> Homo sapiens

<400> 62
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctgggtt aggggagaat 60
aaataaaatc tgtggcatca gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg gggtatgagg tggctggaga agtgttcatg gagagtgtct 180
ctctcctgcc cccaaggcca cggaatcttc tattccttct ttgtacccaa agggcaaagt 240
ggaggccagg gtctctttgc taaggagcta agtaggggaa agaggcaggg ggagctccca 300
gcaggaccaa agggagacca aggtttggac cccagaacag agcaggaacc cagagtcctg 360
tgcagtcaca ggatgacgca gggaggacgg ctgttggtga tct 403

<210> 63
<211> 401
<212> DNA
<213> Homo sapiens

<400> 63
gtttgtagcg ccactttact gccaatagct gacattgccc tgggttaggg gagaataaat 60
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc tttcgtgggc 120
acttaccctg ggaagggggt atgaggtggc tggagaagtg ttcatggaga gtgtctctct 180
cctgccccca aggccacgga atcttctatt ccttctttgt acccaaaggg caaagtggag 240
gccagggtct ctttgctaag gagctaagta ggggaaagag gcaggggggag ctcccagcag 300
gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga gtcctgtgca 360
gtcacaggat gacgcaggag gacggctgtt ggtgatcttt t 401

<210> 64
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (123)..(124)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (349)..(349)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (399)..(399)
<223> n is any nucleotide of a, t, g or c

<400> 64
actgccaata gctgacattg ccctgggtta ggggagaata aataaaatct gtggcatcag 60
acaggtatta ccgaggcgaa gagtggactg ggctttcgtg ggcacttacc ctgggaaggg 120
ggnnatgagg tggctggaga agtgttcatg gagagtgtct ctctcctgcc cccaaggcca 180
cggaatcttc tattccttct ttgtacccaa agggcaaagt ggaggccagg gtctctttgc 240
taaggagcta agtaggggaa agaggcaggg ggagctccca gcaggaccaa agggagacca 300
aggtttggac cccaggaaca gagcaggaac ccagagtcct gtggcagtnc acaggatgga 360
cgcagggagg gacggctgtt cggtgaactt ttctagggnt tcccccatta accggctctt 420
cggatggcct ct 432

<210> 65
<211> 501
<212> DNA
<213> Homo sapiens

<400> 65
ttagtgtttg tagcgccact ttactgccaa tagctgacat tgccctgggt taggggagaa 60
taaataaaat ctgtggcatc agacaggtat taccgaggcg aagagtggac tgggctttcg 120
tgggcactta ccctgggaag ggggtatgag gtggctggag aagtgttcat ggagagtgtc 180
tctctcctgc ccccaaggcc acggaatctt ctattacttc tttgtaccca aagggcaaag 240
tggaggccag ggtctctttg ctaaggagct aagtagggga aagaggcagg gggagctccc 300
agcaggacca aagggagacc aaggtttgga ccccagaaca gagcaggaac ccagagtcct 360
gtgcaatcac aggatgacgc agggaggacg gctgttggtg atcttttcta gggtttctcc 420
attactggct cttcggatgg cctcaatgag atctttctca tagggaaagc ccccattctc 480
cagcttggag aacaccagct g 501

<210> 66
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (21)..(21)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (73)..(73)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (106)..(106)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (116)..(117)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (232)..(232)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (295)..(295)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (311)..(311)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature

<222> (325)..(325)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is any nucleotide of a, t, g or c1

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (343)..(343)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (345)..(345)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (349)..(349)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (371)..(371)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (379)..(379)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (421)..(421)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (430)..(430)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (438)..(438)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (451)..(451)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (461)..(461)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (486)..(486)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (488)..(488)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (496)..(497)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (516)..(516)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (524)..(524)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (527)..(527)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (538)..(538)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (548)..(548)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (551)..(551)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (564)..(564)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (567)..(567)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature

<222> (571)..(571)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (573)..(573)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (581)..(581)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (586)..(587)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (594)..(594)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (603)..(603)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (608)..(608)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (617)..(617)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (620)..(620)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (624)..(624)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (632)..(632)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (635)..(636)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (643)..(643)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (645)..(645)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (647)..(648)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (654)..(654)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (668)..(668)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (672)..(672)
<223> n is any nucleotide of a, t, g or c

C1
<220>
<221> misc_feature
<222> (679)..(680)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (687)..(687)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (692)..(692)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (696)..(696)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (699)..(699)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (702)..(702)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (708)..(708)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature

<222> (711)..(711)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (714)..(714)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (716)..(717)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (719)..(719)
<223> n is any nucleotide of a, t, g or c

C1
<220>
<221> misc_feature
<222> (723)..(723)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (726)..(726)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (728)..(728)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (734)..(734)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (737)..(737)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (746)..(746)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (749)..(749)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (752)..(752)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (761)..(761)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (770)..(771)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (775)..(775)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (777)..(777)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (789)..(789)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (792)..(792)
<223> n is any nucleotide of a, t, g or c

<400> 66
cnggctgagg aattcggacg ngggcagtac tgtgaaggag cagtatccgg gcatcgagat 60
cgagtcgcgc ctnggggnca caggtgcttt gagatagaga taaatngaca gctggnnttc 120
tccaagctgg agaatggggg ctttccctat gagaaagatc tcattgaggc catccgaaga 180
gccagtaatg gagaaaccct agaaaagatc accaacagcc gtcctccctg cntcatcctg 240
tgactncaca ggactctggg ttnctgctct gttctggggt ccaaaccttg gtctnccttt 300
ggtnctgctt nggagctccc nctgnctntt tnccctactt agntncttna gcaaagagga 360
cccttggcct ncactttanc ccttttgggg tacaaaagga agggaattag gaagatttcc 420
nttggcnttn gaggggcnaa ggaagatgag ncaattttcc nattaaacaa ctttttcaag 480
caaacntnaa tacccnnttt ccccaggggt aaggtncccc acgnaanagc ccaagtcnac 540
atttttngc nttgggaaat accntanttt nantccaaaa nttttnnttt aatntttccc 600
canaaccnaa gggaaanttn aagnaatttg gnaannaaag ttngngnntc aaancacaag 660
ataaaaanaa anaaaaaann tttgagnggg gncccnganc cnaatttngc ncantnngng 720
ggnggntnaa aaancanatt tgcagnggnt tnaaaacagt ntgagctttn naaancntgg 780
gtttccaana an 792

<210> 67
<211> 474
<212> DNA
<213> Homo sapiens

<400> 67
ttttttttt tgtttgtagc gccactttac tgccaatagc tgacattgcc ctgggttagg 60
ggagaataaa taaaatctgt ggcatcagac aggtattacc gaggcgaaga gtggactggg 120
ctttcgtggg cacttaccct gggaaggggg tatgaggtgg ctggagaagt gttcatggag 180
agtgtctctc tcctgccccc aaggccacgg aatcttctat tccttctttg tacccaaagg 240
gcaaagtgga ggccagggtc tctttgctaa ggagctaagt aggggaaaga ggcaggggga 300
gctcccagca ggaccaaagg gagaccaagg tttggacccc agaacagagc aggaacccag 360
agtcctgtgc agtcacagga tgacgcaggg aggacggctg ttggtgatct tttctagggt 420
ttctccatta ctggctcttc ggatggcctc aatgagatct ttctcatagg gaaa 474

<210> 68
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (248)..(248)
<223> n is any nucleotide of a, t, g or c

<400> 68
agtgtttgta gcgccacttt actgccaata gctgacattg ccctgggtta ggggagaata 60
aataaaatct gtggcatcag acaggtatta ccgaggcgaa gagtggactg ggctttcgtg 120
ggcacttacc ctgggaaggg ggtatgaggt ggctggagaa gtgttcatgg agagtgtctc 180
tctcctgccc ccaaggccac ggaatcttct attccttctt tgtacccaaa gggcaaagtg 240
gaggccangg tctcttttgc taaggagcaa ataagggaaa gaggcagggg gagctcccag 300
caagaccaaa gggagaccaa ggtttggacc ccagaacaga gcaggaaccc agagtcctgt 360
gcagtcacag gatgacgcag ggaggacggc tgttggtgat cttttctagg gtttctccat 420
tactggctct tcggatggcc tcaatgagat ctttctcata gggaaagccc ccattctcca 480
gct 483

<210> 69
<211> 449
<212> DNA
<213> Homo sapiens

<400> 69
ttttagtgtt tgtagcgcca ctttactgcc aatagctgac attgccctgg gttaggggag 60
aataaataaa atctgtggca tcagacaggt attaccgagg cgaagagtgg actgggcttt 120
cgtgggcact taccctggga agggggtatg aggtggctgg agaagtgttc atggagagtg 180
tctctctcct gcccccaagg ccacggaatc ttctatttct tttttgtacc caaagggcaa 240
agtggaggcc agggtctctt tgctaaggag ctaagtaggg gaaagaggca gggggagctc 300
ccagcaggac caaagggaga ccaaggtttg gaccccagaa cagagcagga acccagagtc 360
ctgtgcagtc acaggatgac gcagggagga cggctgttgg tgatcttttc tagggtttct 420
ccattactgg ctcttcggat ggcctcaat 449

<210> 70
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (385)..(385)
<223> n is any nucleotide of a, t, g or c

<400> 70
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctgggtt aggggagaat 60
aaataaaatc tgtggcatca gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg gggtatgagg tggctggaga agtgttcatg gagagtgtct 180
ctctcctgcc cccaaggcca cggaatcttc tattccttct ttgtacccaa agggcaaagt 240
ggaggccagg gtctctttgc taaggagcta agtaggggaa agaggcaggg ggagctccca 300
gcaggaccaa agggaaccaa ggtttggacc ccagaacaga gcaggaccca gagtcctgtg 360
cagtcacagg atgacgcagg gagcnggctg tgggtgatct ttctaggggt ttctccatta 420
ctggctcttc cgatgcctca ctgagatctt tctcataggg aaagccccca ttctccagct 480
ttgagacgca agctgtcatt tatctctatc tcaaggcacc ctgtgccccc gaggcgaatt 540
catctcgagc cccgatactg ctccttcaca gactggcagt tcaaggaagt cgcc 594

<210> 71
<211> 389
<212> DNA
<213> Homo sapiens

<400> 71

ttttttagtgt ttgtagcgcc actttactgc caatagctga cattgccctg ggttagggga 60
gaataaataa aatctgtggc atcagacagg tattaccgag gcgaagagtg gactgggctt 120
tcgtgggcac ttaccctggg aaggggggtat gaggtggctg gagaagtgtt catggagagt 180
gtctctctcc tgcccccaag gccacggaat cttctattcc ttctttgtac ccaaagggca 240
aagtggaggc cagggtctct ttgctaagga gctaagtagg ggaaagaggc agggggagct 300
cccagcagga ccaaagggag accaaggttt ggaccccaga acagagcagg aacccagagt 360
cctgtgcagt cacaggatga cgcagggag 389

<210> 72
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (334)..(334)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (361)..(361)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (374)..(374)
<223> n is any nucleotide of a, t, g or c

<400> 72
agtgtttgta gcgccacttt actgccaata gctgacattg ccctgggtta ggggagaata 60
aataaaatct gtggcatcag acaggtatta ccgaggcgaa gagtggactg ggctttcgtg 120
ggcacttacc ctgggaaggg ggtatgaggt ggctggagaa gtgttcatgg agagtgtctc 180
tctcctgccc ccaaggccac ggaatcttct attccttctt tgtacccaaa gggcaaagtg 240
gaggccaggg tctctttgct aaggagctaa gtaggggaaa gaggcagggg gagctcccag 300
caggaccaaa gggagaccaa ggtttggacc ccanaacaga gcaggaaccc agagtcctgt 360
ncagtcacag gatnacgcag ggaggacggc tgttggtgat ctttt 405

<210> 73
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (233)..(233)
<223> n is any nucleotide of a, t, g or c

<400> 73
ttttttttttt gtttgtagcg ccactttact gccaatagct gacattgccc tgggttaggg 60
gagaataaat aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc 120
tttcgtgggc acttaccctg ggaaggggtt atgaggtggc tggagaagtg ttcatggaga 180
gtgtctctct cctgccccca aggccacgga atcttctatt ccttctttgt acnccaaagg 240
gcaaagtgga ggccagggtc tctttgctaa ggagctaagt aggggaaaga ggcaggggga 300
gctcccagca ggaccaaagg gagaccaagg tttggacccc agaacagagc aggaacccag 360
agtcctgtgc agtcacagga tgacgcaggg aggacg 396

<210> 74
<211> 392
<212> DNA

<213> Homo sapiens

<400> 74
tttttagtgt ttgtagcgcc actttactgc caatagctga cattgccctg ggttagggga 60
gaataaataa aatctgtggc atcagacagg tattaccgag gcgaagagtg gactgggctt 120
tcgtgggcac ttaccctggg aaggggtat gaggtggctg gagaagtgtt catggagagt 180
gtctctctcc tgcccccaag gccacggaat cttctattcc ttctttgtac ccaaagggca 240
aagtggaggc cagggtctct ttgctaagga gctaagtagg ggaaagaggc agggggagct 300
cccagcagga ccaaagggag accaaggttt ggaccccaga acagagcatg aacccagagt 360
cctgtgcagt cacaggatga cgcagggagg ac 392

<210> 75
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (362)..(362)
<223> n is any nucleotide of a, t, g or c

<400> 75
ctgccaatag ctgacattgc cctgggttag gggagaataa ataaaatctg tggcatcaga 60
caggtattac cgaggcgaag agtggactgg gctttcgtgg gcacttaccc tgggaagggg 120
gtatgaggtg gctggagaag tgttcatgga gagtgtctct ctcctgcccc caaggccacg 180
gaatcttcta ttccttcttt gtacccaaag gcaaagtgga ggccagggtc tctttgctaa 240
ggagctaagt aggggaaaga ggcaggggga gctcccagca ggaccaaagg gagaccaagg 300
tttggacccc agaacagagc aggaacccag agtcctgtgc agtcacagga tgacgcaggg 360
angaccggct tt 372

<210> 76
<211> 380
<212> DNA
<213> Homo sapiens

<400> 76
ttttagtgtt tgtagcgcca ctttactgcc aatagctgac attgccctgg gttaggggag 60
aataaataaa atctgtggca tcagacaggt attaccgagg cgaagagtgg actgggcttt 120
cgtgggcact taccctggga aggggtatg aggtggctgg agaagtgttc atggagagtg 180
tctctctcct gcccccaagg ccacggaatc ttctattcct tctttgtacc caaagggcaa 240
agtggaggcc agggtctctt tgctaaggag ctaagtaggg gaaagaggca gggggagctc 300
ccagcaggac caaagggaga ccaaggtttg gaccccagaa cagagcagga acccagagtc 360
ctgtgcagtc acaggatgac 380

<210> 77
<211> 374
<212> DNA
<213> Homo sapiens

<400> 77
gtttgtagcg ccactttact gccaatagct gacattgccc tgggttaggg gagaataaat 60
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc tttcgtgggc 120
acttaccctg ggaaggtggt atgaggtggc tggagaagtg ttcatggaga gtgtctctct 180
cctgccccca aggccacgga atcttctatt ccttctttgt acccaaaggt caaagtggag 240
gccagggtct ctttgctaag gagctaagta ggggaaagag gcaggggggag ctcccagcag 300
gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga gtcctgtgca 360
gtcacaggat gacg 374

<210> 78
<211> 386
<212> DNA
<213> Homo sapiens

<400> 78
tttttttttt tttttttttt agtgtttgta gcgccacttt actgccaata gctgacattg 60
ccctgggtta ggggagaata aataaaatct gtggcatcag acaggtatta ccgaggcgaa 120
gagtggactg ggctttcgtg ggcacttacc ctgggaaggg ggtatgaggt ggctggagaa 180
gtgttcatgg agagtgtctc tctcctgccc ccaaggccac ggaatcttct attccttctt 240
tgtacccaaa gggcaaagtg gaggccaggg tctctttgct aaggagctaa gtaggggaaa 300
gaggcagggg gagctcccag caggaccaaa gggagaccaa ggtttggacc ccagaacaga 360
gcaggaaccc agagtcctgt gcagtc 386

<210> 79
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is any nucleotide of a, t, g or c

C1

<400> 79
tgtttgtagc gccactttac tgccaatagc tgacattgcc ctgggttagg ggagaataaa 60
taaaatctgt ggcatcagac aggtattacc gaggcgaaga gtggactggg ctttcgtggg 120
cacttaccct gggaaggggg tatgaggtgg ctggagaagt gttcatggag agtgtctctc 180
tcctgccccc aaggccacgg aatcttctat tccttctttg tacccaaagg caaagtggag 240
gccagggtct ctttgctaag gagctaagta ggggaaagag gcagggggat ctcccagcag 300
gaccaaaggg agaccaaggt ttggacccca gaacagagca aggaacccag agtcctgtgc 360
agtcacagga ttgacgcagg gaggaccggc ttgtttggtg atcctttcct agggtttctc 420
ccattanttg gctctttccg attggcctca a 451

<210> 80
<211> 311
<212> DNA
<213> Homo sapiens

<400> 80
ataaataaaa tctgtggcat cagacaggta ttaccgaggc gaagagtgga ctgggctttc 60
gtgggcactt accctgggaa gggggtatga ggtggctgga gaagtgttca tggagagtgt 120
ctctctcctg cccccaaggc cacggaatct tctattcctt ctttgtaccc aaagggcaaa 180
gtggaggcca gggtctcttt gctaaggagc taagtagggg aaagaggcag ggggagctcc 240
cagcaggacc aaagggagac caaggtttgg accccagaac atagcaggaa ccagagtcct 300
gtgcagtcac a 311

<210> 81
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (126)..(126)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature

<222> (349)..(349)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (390)..(390)
<223> n is any nucleotide of a, t, g or c

<400> 81
cactttactg ccaatagctg acattgccct gggttagggg agaataaata aaatctgtgg 60
catcagacag gtattaccga ggcgaagagt ggactgggct ttcgtgggca cttaccctgg 120
gaaggnggtt atgaggtggc tggagaagtg ttcatggaga gtgtctctct cctgccccca 180
aggcacggaa tcttctattc cttctttgta cccaaagggc aaagtggagg ccagggtctc 240
tttgctaagg agctaagtag gggaaagagg caggggggagc tcccagcagg accaaaggga 300
gaccaaggtt tgggacccca gaacagagca ggaacccaga gtcctgttnc agttcacagg 360
atgacggcag gggagggacg gcttttggtn atctttttt agggtttttt cc 412

<210> 82
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (73)..(73)
<223> n is any nucleotide of a, t, g or c

C1

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (219)..(219)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (306)..(306)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is any nucleotide of a, t, g or c

<220>
<221> misc_feature
<222> (365)..(365)
<223> n is any nucleotide of a, t, g or c

<400> 82
actgccaata gctgacattg ccctgggtta ggggagaata ataaaatct gtggcatcag 60
acaggtatta ccnaggcgaa gagtggactg ggctttcgtg ggcacttacc ctgggaaggg 120
ggtatgaggt ggctggagaa gtgttcatgg agagtgtctc tctcctgtcc ccaaggccac 180

ggaatcttct attccttctt tgtacccaan gggcaaagng gaggccaggg tctctttgct 240
aaggagctaa gtaggggaaa gaggcagggg gagctcccag caggaccaaa gggggaccaa 300
ggtttnggac cccagaacag ancaggnacc cagagtcctt tgcagtcaca gggatgacgc 360
agggnggacg gc 372

<210> 83
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is any nucleotide of a, t, g or c

<400> 83
ttttttttt ttttttttt ttttttttag ggtttgtagc gccactttac tgccaatagc 60
tgacattgcc ctgggttagg ggagaataaa taaaatctgg ggcatcaaac aggttttacc 120
gaggcgaaaa gtggactggg ctttcgtggg cacttaccct gggaaggggg tatgaggggg 180
ctggaaaagt gttcatggag agtgtctctc tcctgccccc aaggccacgg aatcttttat 240
tccttctttg tacccaaagg gcaaagtgga ggccagggtc tttttgctaa ggagctaaat 300
aggggaaaga ggcaggggga gctcccanca ggaccaaagg gagaccaagg tttggacccc 360
aaaacaaagc aggaacccaa agtcctgtgc agtcacagga t 401

<210> 84
<211> 733
<212> DNA
<213> Homo sapiens

<400> 84
gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
aattcgaggg tgcaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga 120
tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

<210> 85
<211> 9
<212> PRT
<213> Homo sapiens

<400> 85
Ser Thr Glu Pro Gly Gln Thr Ser Val
1 5

<210> 86

<211> 9

<212> PRT

<213> Homo sapiens

<400> 86

Ser Thr Glu Pro Gly Gln Ile Ser Tyr
1 5

<210> 87

<211> 9

<212> PRT

<213> Homo sapiens

<400> 87

Gly Thr Glu Pro Ser Arg Leu Gly Tyr
1 5

<210> 88

<211> 9

C1

<212> PRT

<213> Homo sapiens

<400> 88

Phe Leu Ile Glu Ile Asn Trp Tyr Leu
1 5

<210> 89

<211> 10

<212> PRT

<213> Homo sapiens

<400> 89

Phe Leu Tyr Glu Lys Asp Leu Ile Glu Ala
1 5 10

<210> 90

<211> 10

<212> PRT

<213> Homo sapiens

<400> 90

Phe Leu Tyr Glu Lys Asp Leu Ile Glu Val
1 5 10

<210> 91

<211> 9

<212> PRT

<213> Homo sapiens

<400> 91

Gly Val Phe Pro Tyr Glu Lys Asp Leu
1 5

<210> 92

<211> 10

<212> PRT

<213> Homo sapiens

<400> 92

Cys Val Glu Phe Ala Thr Tyr Leu Glu Leu
1 5 10

<210> 93

<211> 10

<212> PRT

<213> Homo sapiens

<400> 93

Phe Val Tyr Glu Lys Asp Leu Ile Glu Ala
1 5 10

<210> 94

<211> 9

<212> PRT

<213> Homo sapiens

<400> 94

Gln Tyr Pro Gly Ile Glu Ile Glu Leu
1 5

<210> 95

<211> 10

<212> PRT

<213> Homo sapiens

<400> 95

Ile Tyr Gly Gln Leu Val Phe Ser Lys Leu
1 5 10

<210> 96

<211> 9

<212> PRT

<213> Homo sapiens

<400> 96

Lys Leu Glu Asn Gly Gly Phe Pro Lys
1 5

<210> 97

<211> 9

<212> PRT

<213> Homo sapiens

<400> 97

Ile Leu Gly Gln Leu Val Phe Ser Lys
1 5

<210> 98

<211> 10

<212> PRT

<213> Homo sapiens

<400> 98

Leu Leu Asn Gly Gly Phe Pro Tyr Glu Lys
1 5 10

<210> 99

<211> 9

<212> PRT

<213> Homo sapiens

<400> 99

Ile Val Gly Gln Leu Val Phe Ser Lys
1 5

<210> 100

<211> 10

<212> PRT

<213> Homo sapiens

<400> 100

Leu Val Asn Gly Gly Phe Pro Tyr Glu Lys
1 5 10

<210> 101

<211> 9

<212> PRT

<213> Homo sapiens

<400> 101

Lys Ile Leu Ile Glu Ala Ile Arg Arg
1 5

<210> 102

<211> 9

<212> PRT

<213> Homo sapiens

<400> 102

Tyr Val Gly Ile Glu Ile Glu Ser Arg
1 5

<210> 103

<211> 9

<212> PRT

<213> Homo sapiens

<400> 103

Glu Val Val Glu Pro Gly Ser Gly Arg
1 5

<210> 104

<211> 9

<212> PRT

<213> Homo sapiens

<400> 104

Ser Arg Leu Gly Gly Thr Gly Ala Leu
1 5

C1

<210> 105

<211> 10

<212> PRT

<213> Homo sapiens

<400> 105

Glu Arg Ile Thr Asn Ser Arg Pro Pro Leu
1 5 10

<210> 106

<211> 9

<212> PRT

<213> Homo sapiens

<400> 106

Glu Glu Val Glu Pro Gly Ser Gly Leu
1 5

<210> 107

<211> 10

<212> PRT

<213> Homo sapiens

<400> 107

Ile Glu Ile Glu Ser Arg Leu Gly Gly Leu
1 5 10

<210> 108

<211> 9

<212> PRT

<213> Homo sapiens

<400> 108

Val Glu Pro Gly Ser Gly Val Arg Leu
1 5

<210> 109

<211> 10

<212> PRT

<213> Homo sapiens

<400> 109

Phe Glu Ile Glu Ile Asn Gly Gln Leu Leu
1 5 10

<210> 110

<211> 9

<212> PRT

<213> Homo sapiens

<400> 110

Phe Glu Ala Thr Tyr Leu Glu Leu Val
1 5

<210> 111

<211> 10

<212> PRT

<213> Homo sapiens

<400> 111

Lys Glu Leu Ile Glu Ala Ile Arg Arg Val
1 5 10

<210> 112

<211> 9

<212> PRT

<213> Homo sapiens

<400> 112

Glu Gln Cys Gly Phe Glu Ala Thr Tyr
1 5

<210> 113

<211> 10

<212> PRT

<213> Homo sapiens

<400> 113

Glu Gln Arg Leu Gly Gly Thr Gly Ala Phe
1 5 10

<210> 114

<211> 10

<212> PRT

<213> Homo sapiens

<400> 114

Gly Gln Gly Val Arg Ile Val Val Glu Tyr
1 5 10

<210> 115

<211> 9

<212> PRT

<213> Homo sapiens

<400> 115

Asn Pro Arg Pro Pro Cys Val Ile Leu
1 5

<210> 116

<211> 10

<212> PRT

<213> Homo sapiens

<400> 116

Glu Pro Gly Ser Gly Val Arg Ile Val Leu
1 5 10

<210> 117

<211> 9

<212> PRT

<213> Homo sapiens

<400> 117

Glu Thr Leu Glu Lys Ile Thr Asn Leu
1 5

<210> 118

<211> 8

<212> PRT

<213> Homo sapiens

<400> 118

Glu Ala Ile Arg Arg Ala Ser Leu
1 5

<210> 119

<211> 10

<212> PRT

<213> Homo sapiens

<400> 119

Ile Ala Arg Ala Ser Asn Gly Glu Thr Leu
1 5 10

<210> 120

<211> 9

<212> PRT

<213> Homo sapiens

<400> 120

Arg Arg Ala Ser Asn Gly Glu Thr Phe
1 5

<210> 121

<211> 10

<212> PRT

<213> Homo sapiens

C1

<400> 121

Val Arg Ile Val Val Glu Tyr Cys Glu Tyr
1 5 10

<210> 122

<211> 9

<212> PRT

<213> Homo sapiens

<400> 122

Ile Arg Arg Ala Ser Asn Gly Glu Leu
1 5

<210> 123

<211> 10

<212> PRT

<213> Homo sapiens

<400> 123

Arg Arg Ala Ser Asn Gly Glu Thr Leu Leu
1 5 10

<210> 124

<211> 9

<212> PRT

<213> Homo sapiens

<400> 124

Phe Pro Lys Leu Glu Asn Gly Gly Met
1 5

<210> 125

<211> 10

<212> PRT

<213> Homo sapiens

<400> 125

C1

Phe Pro Tyr Glu Lys Asp Leu Ile Glu Met
1 5 10

<210> 126

<211> 9

<212> PRT

<213> Homo sapiens

<400> 126

Phe Asp Ile Glu Ile Asn Gly Gln Leu
1 5

<210> 127

<211> 10

<212> PRT

<213> Homo sapiens

<400> 127

Phe Asp Ile Glu Ile Asn Gly Gln Leu Ile
1 5 10

<210> 128

<211> 9

<212> PRT

<213> Homo sapiens

<400> 128

Gly His Glu Ala Thr Tyr Leu Glu Leu
1 5

<210> 129

<211> 10

<212> PRT

<213> Homo sapiens

<400> 129

Ala His Glu Ile Glu Ile Asn Gly Gln Leu
1 5 10

C1

<210> 130

<211> 9

<212> PRT

<213> Homo sapiens

<400> 130

Arg His Ala Ser Asn Gly Glu Thr Leu
1 5

<210> 131

<211> 10

<212> PRT

<213> Homo sapiens

<400> 131

Cys His Phe Glu Ala Thr Tyr Leu Glu Leu
1 5 10

<210> 132

<211> 9

<212> PRT

<213> Homo sapiens

<400> 132

Asn Lys Gln Leu Val Phe Ser Lys Leu
1 5

<210> 133

<211> 9

<212> PRT

<213> Homo sapiens

<400> 133

Ile Glu Ile Asn Gly Gln Leu Val Tyr
1 5

C1

<210> 134

<211> 10

<212> PRT

<213> Homo sapiens

<400> 134

Ile Glu Ile Glu Ser Arg Leu Gly Gly Tyr
1 5 10

<210> 135

<211> 9

<212> PRT

<213> Homo sapiens

<400> 135

Leu Pro Gly Thr Gly Ala Phe Glu Ile
1 5

<210> 136

<211> 10

<212> PRT

<213> Homo sapiens

<400> 136

Ser Pro Val Lys Glu Gln Tyr Pro Gly Ile
1 5 10

<210> 137

<211> 9

<212> PRT

<213> Homo sapiens

<400> 137

Gly Pro Phe Pro Tyr Glu Lys Asp Ile
1 5

<210> 138

<211> 10

<212> PRT

<213> Homo sapiens

<400> 138

Ser Pro Val Lys Glu Gln Tyr Pro Gly Ile
1 5 10

<210> 139

<211> 9

<212> PRT

<213> Homo sapiens

<400> 139

Leu Ala Phe Thr Gly Ala Phe Glu Ile
1 5

<210> 140

<211> 10

<212> PRT

<213> Homo sapiens

<400> 140

Glu Ala Gly Ser Gly Val Arg Ile Val Val
1 5 10

<210> 141

<211> 9

<212> PRT

<213> Homo sapiens

<400> 141

Leu Gln Ile Asn Gly Gln Leu Val Ile
1 5

<210> 142

<211> 10

<212> PRT

<213> Homo sapiens

C1

<400> 142

Val Gln Pro Gly Ser Gly Val Arg Ile Val
1 5 10

<210> 143

<211> 9

<212> PRT

<213> Homo sapiens

<400> 143

Phe Ser Lys Leu Glu Asn Gly Gly Trp
1 5

<210> 144

<211> 10

<212> PRT

<213> Homo sapiens

<400> 144

Gly Ser Gly Val Arg Ile Val Val Glu Trp
1 5 10

<210> 145

<211> 10

<212> PRT

<213> Homo sapiens

<400> 145

Ser Ala Val Lys Glu Gln Tyr Pro Gly Leu
1 5 10

<210> 146

<211> 9

<212> PRT

<213> Homo sapiens

C1

<400> 146

Glu Phe Cys Gly Phe Glu Ala Thr Leu
1 5

<210> 147

<211> 10

<212> PRT

<213> Homo sapiens

<400> 147
Val Phe Ser Lys Leu Glu Asn Gly Gly Leu
1 5 10